

Baydur® STR/C-1000 (38% Glass)

Polyurethane (MDI)

Covestro - PUR

Message:

Baydur STR/C-1000 is a moderate-viscosity, two-component, liquid structural RIM (reaction injection molding) system. Component A is a modified polymeric diphenylmethane diisocyanate (PMDI) blend, and Component B is a totally formulated polyol blend. The Baydur STR/C-1000 system is used in the production of structural composite parts with long-fiber reinforcements. The reinforcement is placed in the mold, which is closed and then injected with the reactive resin. Baydur STR composites can be ten times stiffer than Baydur structural foams and have the excellent impact properties traditionally associated with Bayer polyurethanes. As with any product, use of the Baydur STR/C-1000 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 38% filler by weight		
Features	Impact resistance, good		
	Medium viscosity		
Processing Method	Reaction Injection Molding (RIM)		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm³	ASTM D1622
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (fracture, 2.79mm)	170	MPa	ASTM D638
Tensile Elongation (fracture, 2.79mm)	5.0	%	ASTM D638
Flexural Modulus (2.79 mm)	10000	MPa	ASTM D790
Flexural Strength (2.79 mm)	296	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (2.79 mm)	590	J/m	ASTM D256
Thermoset	Nominal Value		
Thermoset Components			
Component a	Mixing ratio by weight: 180		
Component B	Mixing ratio by weight: 100		
Additional Information			

Part A
Type: Isocyanate
Appearance: Dark brown liquid
Specific Gravity @ 25°C: 1.24
Viscosity @25°C: 320 cps
Flash Point PMCC: 213°C
NCO: 27.3 wt%

Part B
Type: Polyol
Appearance: Clear to straw yellow liquid
Specific Gravity @ 25°C: 1.04
Viscosity @25°C: 700 cps
Flash Point PMCC: 143°C
Water: <0.1 wt%
Hydroxyl Number: 600 KOH/g


Material Temperature - Isocyanate (Component A): 32 to 37°C Material Temperature - Polyol (Component B): 41 to 49°C Mold Temperature: 79 to 88°C
Metering Pressure: 2000 to 2500 psi Gel Time: 36 sec Demold Time: 120 sec Maximum Shot Time: 10 sec

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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